

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
**William A. Hinton State Laboratory Institute**  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

Mary Szulborski, ADA

Suffolk County District Attorney's Office  
By e-mail

September 9, 2011

Re: Comm. v. [REDACTED] State Lab nos. [REDACTED]

ADA Szulborski,

Please find below a discovery package for the case noted above. The material is collated in the following manner:

- 1) the c.v.'s of the chemists
- 2) the Evidence Office receipt to the Boston Police
- 3) the inventory control cards
- 4) the Drug Powder Analysis Forms
- 5) the gas chromatography/mass spectrometry (gc/ms) data

I was the custodial chemist responsible for the chain of custody, weights and the preliminary analysis of the exhibit. Kate Corbett operated the gc/ms for the confirmatory analysis.

If you need further clarification of this material, call me directly at (617) 983-6627.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Lawler".

Michael Lawler  
Senior Chemist

Cc: A. Dookhan

## Curriculum Vitae

Michael Lawler

### **Education:**

University of Virginia, Charlottesville, Va. Bachelor of Arts in English, 1975

Harvard University, Cambridge, Ma. Master of Arts in biology, 1995

### **Experience:**

1990-present currently Chemist III, Mass. Dept. of Public Health, Drug Lab analyst determining the identity of unknown substances and providing expert testimony in the Courts. Conduct special testing for poisons within drug exhibits. Lab Safety Officer.

2005-2008 lecturer in chemistry, Curry College, Milton, Ma.

1988-1990 New England Newborn Screening (NENS) Biochemist conducting pilot studies and validation trials of new newborn screening tests. Investigator and co-author of papers noted below. Introduced screening test for Biotinidase Deficiency. Liaison with interstate collaborators in national studies.

1983-1988 Supervised NENS urine screening lab for metabolic disorders. Conducted research in collaboration with Children's Hospital (Boston) detecting neuroblastoma, a cancer of early childhood. Conducted reference testing for rare metabolic disorders for an international audience.

1982-1983 NENS hypothyroid assay technologist with Tuft's University

1979-1981 Mass. Bay Community College, staff technologist preparing materials for the laboratory technician program, which included reagents, apparatus and maintaining stock cultures of human pathogens.

### **Additional education and special training**

Drug Analysis, completed six week training course by senior staff within the Department of Public Health Drug Analysis Laboratory

National Laboratory Network Training Program course as Expert Witness

Qualified as an expert witness in the Massachusetts Courts and the U.S. District Court  
Current Drug Trends – Multijurisdictional Drug Task Force Academy

CDC course in antibiotic resistance CDC course in cell culture

CDC course in public health response to bioterrorism

U.S. Army course in biologic warfare and terrorism

### **Journal Publications**

Screening, 1992, 1:34-37; Lawler,M., Frederick,S., Rodriguez-Anza, S., Wolf,B., Levy,H., *Newborn Screening for Biotinidase Deficiency, Pilot Study and Follow-up of Identified Cases*

Genetic Screening, 1990, 11-18, Mitchell,M., Lawler,M., Walraven,C., Hermos,R., To Screen or Not to Screen for Congenital Hyperplasia: Is that the Question?

The Journal of Pediatrics, 116: 78-83, Secor-McVoy,J., Lawler,M., Schmidt, M., Ebers,D., Hart,P., Pettit,D., Blitzer,M., Wolf,B., *Partial Biotinidase Deficiency: Clinical and Biochemical Features*

### **Professional Affiliations**

Northeastern Association of Forensic Scientists (NEAFS) since 2005

### **Awards**

Theobald Smith Education Grant for graduate studies

# Curriculum Vitae

Kate A. Corbett

## Education

Bachelor of Science Degree, CHEMISTRY May 2003

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

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## Employment

Chemist II State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005

Research Associate (September 2003 - August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

Intern (March 2003 - August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units



## **DRUG RECEIPT**

CC #

**BOOK #** 65

PAGE # 42

**DESTRUCTION #**

District/Unit DW D-4

Name & Rank of Arresting Officer Robert Walsh, P.O. ID# 10794

To be completed by ECU personnel only

Name and Rank of Submitting Officer PO Delpina ID# 12015

Received by John Date 6-23-00

Date \_\_\_\_\_

BPD Form 0038-BIS-0907 (prev. 1753)

No. [REDACTED]

Date Analyzed: 7/27/10

City: Boston D.C.U. Police Dept.

Officer: P.O. MILA DEPINA

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 3 Cont: pb

Date Rec'd: 06/23/2010

No. Analyzed: 1

Gross Wt.: 1.97

Net Weight: 0.11g

# Tests: 2

AM  
• 2/6AC

Prelim: cocaine (K) Findings: cocaine

No. [REDACTED]

Date Analyzed: 7/27/10

City: Boston D.C.U. Police Dept.

Officer: P.O. MILA DEPINA

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 31 Cont: pb

Date Rec'd: 06/23/2010

No. Analyzed: 4

Gross Wt.: 9.54

Net Weight: 0.432g

# Tests: 36

MZC  
• 8/6AC

Prelim: cocaine (K) Findings: cocaine

GC/MSD  
G0726(0.5)

GC/MSD  
G0726(0.5)

## DRUG POWDER ANALYSIS FORM

7/27/10

SAMPLE #

GENCY

Boston, DCI

ANALYST

WZ

No. of samples tested:

Evidence Wt.

1.97

PHYSICAL DESCRIPTION:

3 pb w/ substance

Gross Wt ( ): 0.4097

Gross Wt ( ): \_\_\_\_\_

Pkg. Wt: \_\_\_\_\_

Net Wt: 0.1129

OAAUSS 2334 7-22-10

20g = 20.000g

10g = 10.000g

5g = 5.000g

1g = 0.9998g

PRELIMINARY TESTSSpot Tests

|                    | H+  |
|--------------------|-----|
| Cobalt Thiocyanate | (+) |
| Marquis            | (-) |
| Froehde's          | (-) |
| Mecke's            | (-) |

Microcrystalline Tests

Gold Chloride

TLTA

OTHER TESTSPRELIMINARY TEST RESULTS

RESULTS \_\_\_\_\_

DATE \_\_\_\_\_

GC/MS CONFIRMATORY TEST

RESULTS Cocaine

MS OPERATOR

DATE 7/27/10

7/27/10

## DRUG POWDER ANALYSIS FORM

SAMPLE #

AGENCY

ANALYST

No. of samples tested:

Evidence Wt.

MC

9.54g

## PHYSICAL DESCRIPTION:

31g b w/sus

Gross Wt ( ): 5.1445

Gross Wt ( ): \_\_\_\_\_

Pkg. Wt: \_\_\_\_\_

Net Wt: 4.3245

OHAUS 2334 7-23-10

20g = 20,000g

10g = 10,000g

5g = 5,000g

1g = 0,9999g

## PRELIMINARY TESTS

## Spot Tests

|             |     |     |     |
|-------------|-----|-----|-----|
| Cobalt      | (+) | (+) | x 4 |
| Thiocyanate | (+) | (-) |     |
| Marquis     | (-) |     |     |
| Froehde's   | (-) |     |     |
| Mecke's     | (-) |     |     |

## Microcrystalline Tests

|               |     |     |
|---------------|-----|-----|
| Gold Chloride | (+) | x 4 |
| TLTA          | (+) | (-) |

## OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS \_\_\_\_\_

DATE \_\_\_\_\_

## GC/MS CONFIRMATORY TEST

RESULTS CJCACM

MS OPERATOR KAC

DATE 7/27/10

Sample #: \_\_\_\_\_

# samples to C.C.

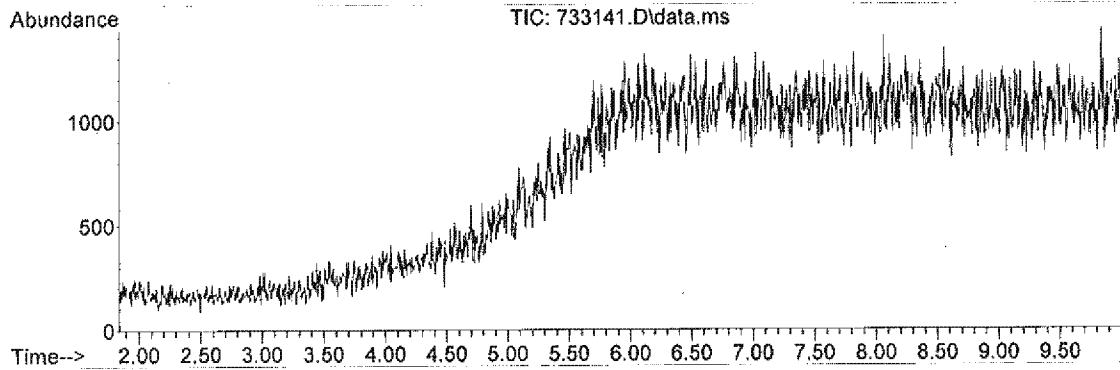
| Weight  | Net Weight | #  | Gross Weight | Packet Weight | Net Weight |
|---------|------------|----|--------------|---------------|------------|
| 0.1715+ | 0.1715     | 26 |              |               |            |
| 0.1426+ | 0.1426     | 27 |              |               |            |
| 0.1194+ | 0.1194     | 28 |              |               |            |
| 0.1248+ | 0.1248     | 29 |              |               |            |
| 0.1395* |            | 30 |              |               |            |
| 0.1395x |            | 31 |              |               |            |
| 0.1395  |            | 32 |              |               |            |
| 0.1395* |            | 33 |              |               |            |
| 0.0     |            | 34 |              |               |            |
| 0.0     |            | 35 |              |               |            |
| 0.0     |            | 36 |              |               |            |
| 12      |            | 37 |              |               |            |
| 13      |            | 38 |              |               |            |
| 14      |            | 39 |              | *             |            |
| 15      |            | 40 |              |               |            |
| 16      |            | 41 |              |               |            |
| 17      |            | 42 |              |               |            |
| 18      |            | 43 |              |               |            |
| 19      |            | 44 |              |               |            |
| 20      |            | 45 |              |               |            |
| 21      |            | 46 |              | 4             |            |
| 22      |            | 47 |              |               |            |
| 23      |            | 48 |              |               |            |
| 24      |            | 49 |              |               |            |
| 25      |            | 50 |              |               |            |

Calculations:

✓ 9/9/11

## Information from Data File:

File Name : E:\SYSTEM7\07\_26\_10\733141.D  
Operator : ASD  
Date Acquired : 26 Jul 2010 22:22  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

\*\*\*NO INTEGRATED PEAKS\*\*\*

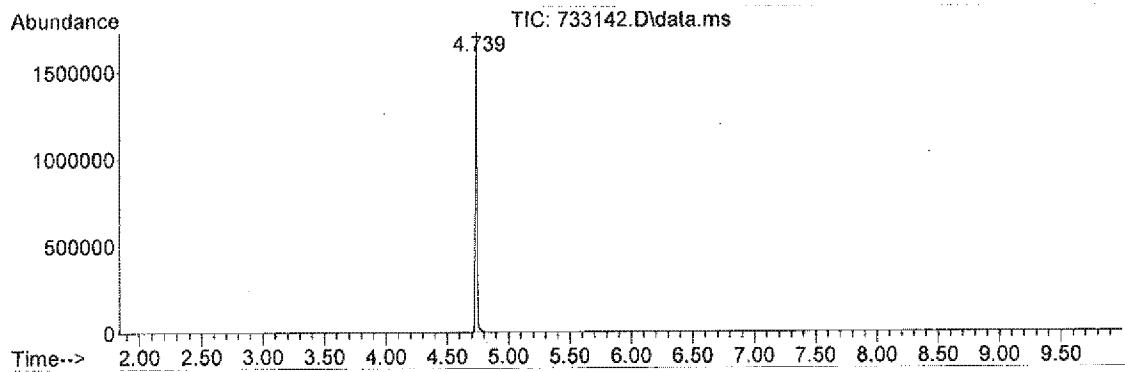
Area Percent / Library Search Report

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Information from Data File:

File Name : E:\SYSTEM7\07\_26\_10\733142.D  
Operator : ASD  
Date Acquired : 26 Jul 2010 22:34  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 42  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.739     | 1563758 | 100.00 | 100.00  |

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# Area Percent / Library Search Report

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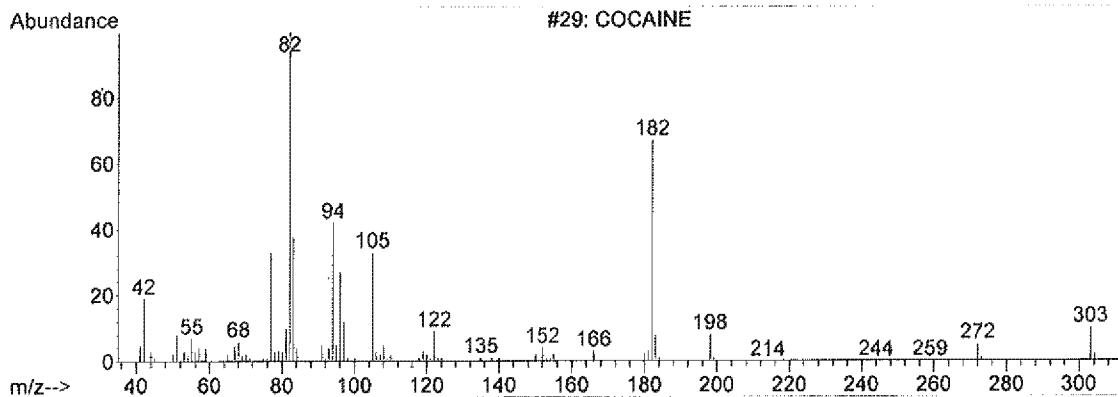
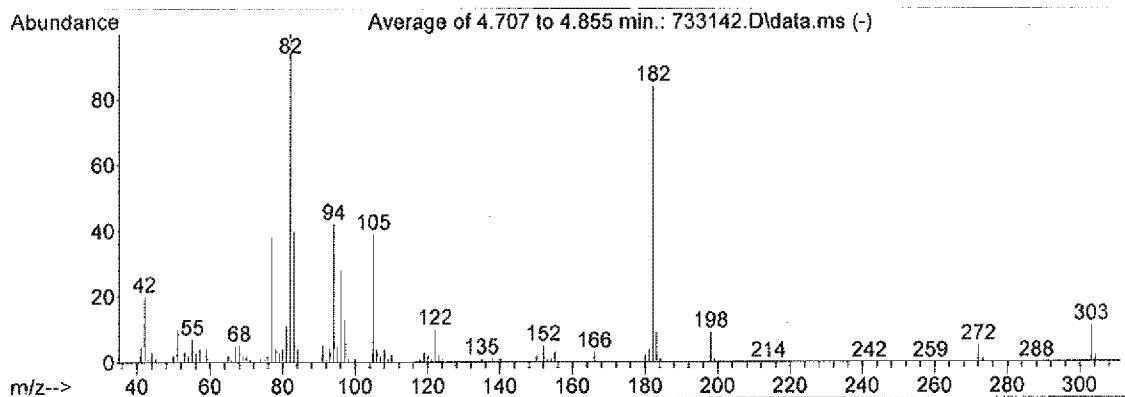
**Information from Data File:**

File Name : E:\SYSTEM7\07\_26\_10\733142.D  
Operator : ASD  
Date Acquired : 26 Jul 2010 22:34  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 42  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.74 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |



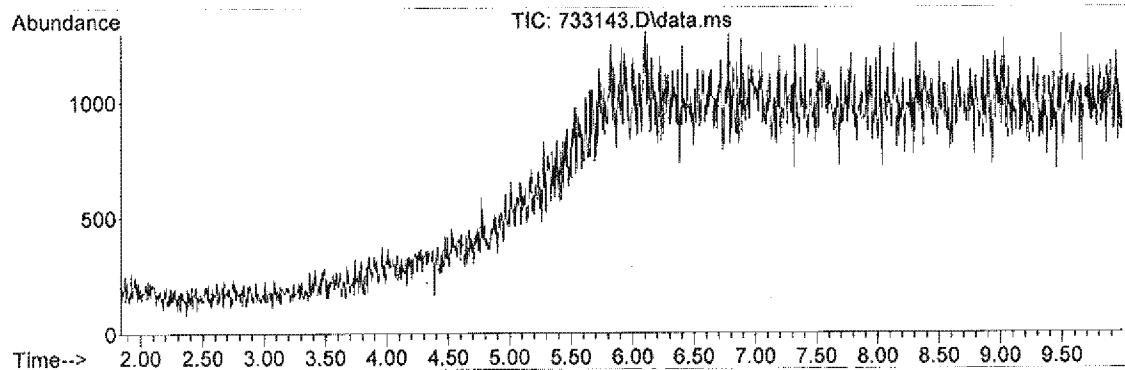
Area Percent / Library Search Report

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Information from Data File:

File Name : E:\SYSTEM7\07\_26\_10\733143.D  
Operator : ASD  
Date Acquired : 26 Jul 2010 22:47  
Sample Name : BLANK  
Submitted by : MGL  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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\*\*\*NO INTEGRATED PEAKS\*\*\*

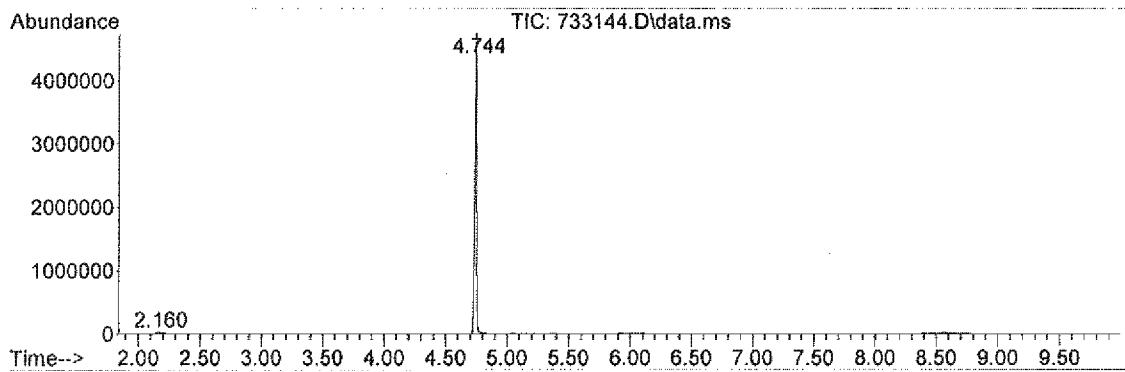
Area Percent / Library Search Report

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Information from Data File:

File Name : E:\SYSTEM7\07\_26\_10\733144.D  
Operator : ASD  
Date Acquired : 26 Jul 2010 22:59  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 44  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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|       |         |       |        |
|-------|---------|-------|--------|
| 2.160 | 115026  | 2.30  | 2.36   |
| 4.744 | 4875505 | 97.70 | 100.00 |

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Area Percent / Library Search Report

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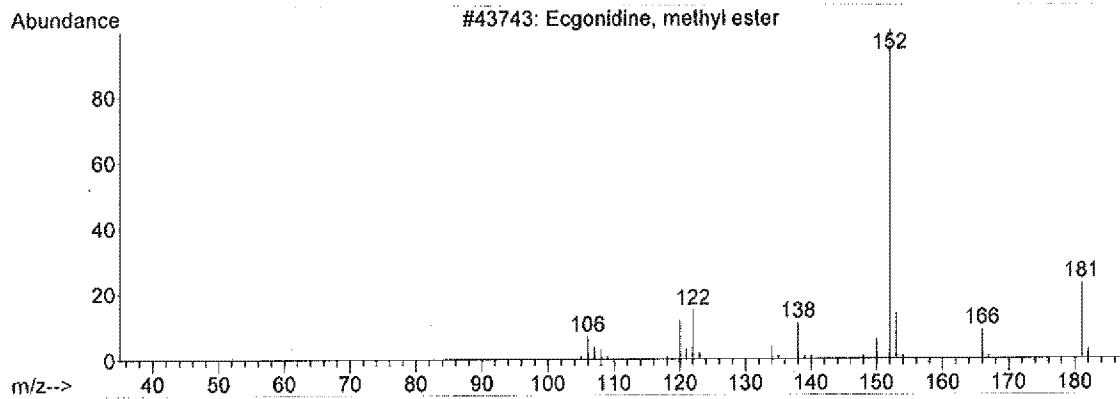
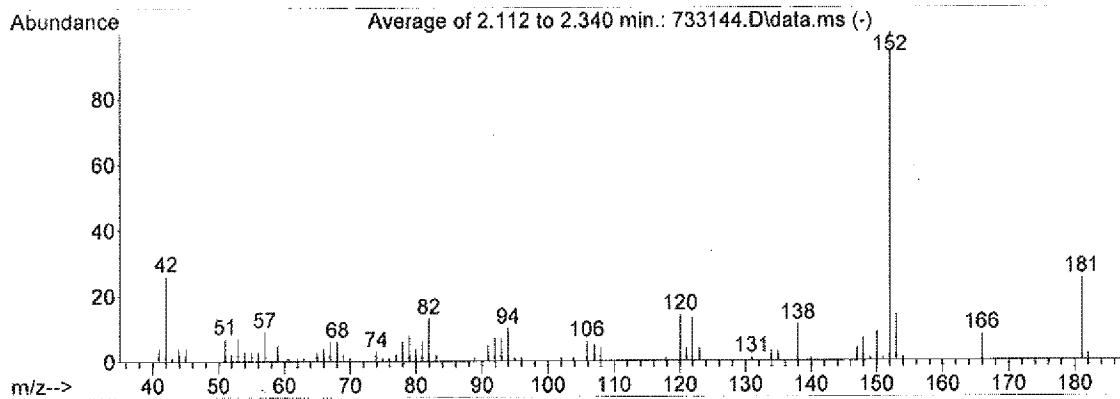
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File Name : E:\SYSTEM7\07\_26\_10\733144.D  
Operator : ASD  
Date Acquired : 26 Jul 2010 22:59  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 44  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 1   | 2.16 | C:\Database\NIST05a.L               |             |      |
|     |      | Ecgonidine, methyl ester            | 127379-24-2 | 94   |
|     |      | 2-Carbomethoxy-8-methyl-8-azabicycl | 043021-26-7 | 70   |
|     |      | 2,6-Dimethoxytoluene                | 005673-07-4 | 43   |



Area Percent / Library Search Report

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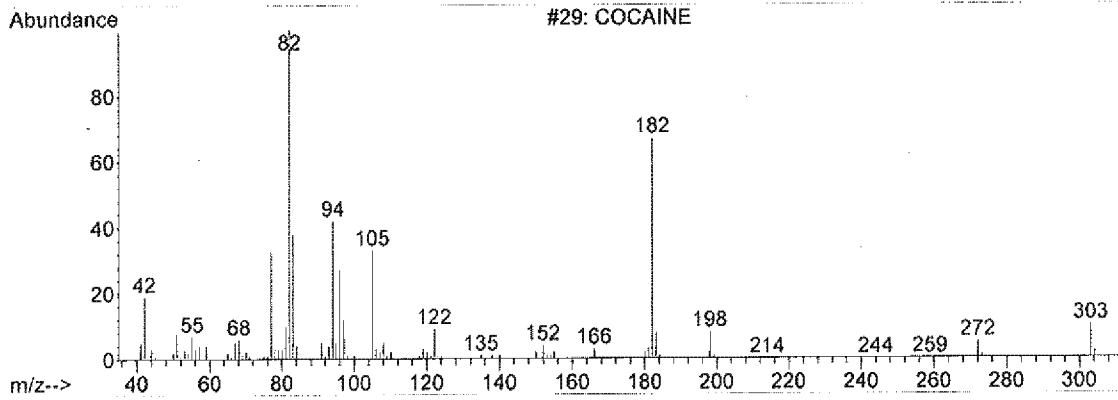
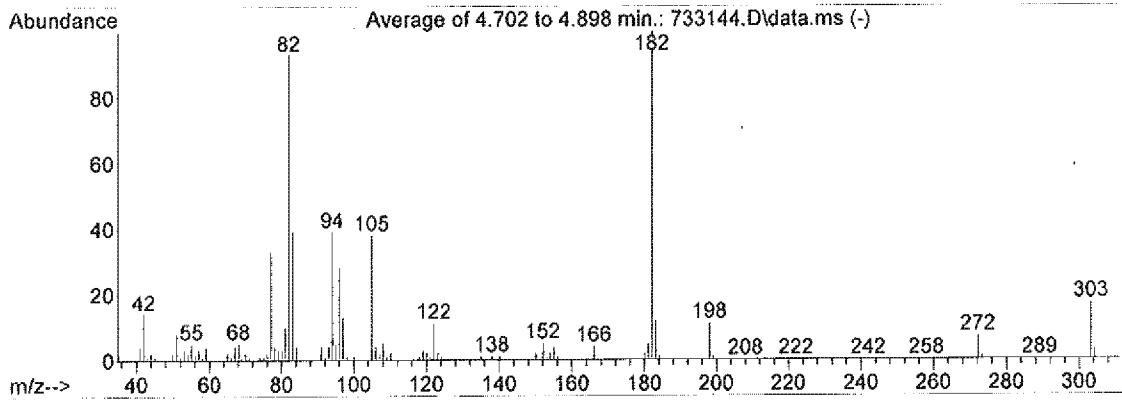
Information from Data File:

File Name : E:\SYSTEM7\07\_26\_10\733144.D  
Operator : ASD  
Date Acquired : 26 Jul 2010 22:59  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 44  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

---

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 2   | 4.74 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |



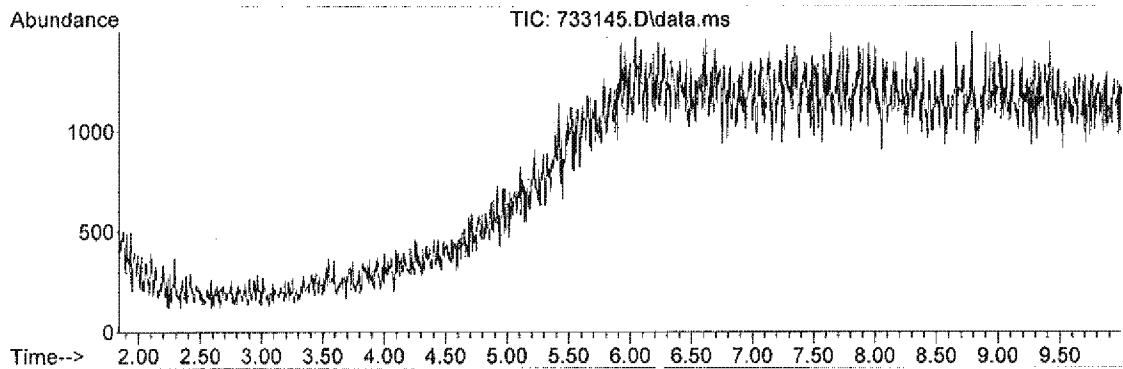
Area Percent / Library Search Report

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Information from Data File:

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Operator : ASD  
Date Acquired : 26 Jul 2010 23:12  
Sample Name : BLANK  
Submitted by : MGL  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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\*\*\*NO INTEGRATED PEAKS\*\*\*

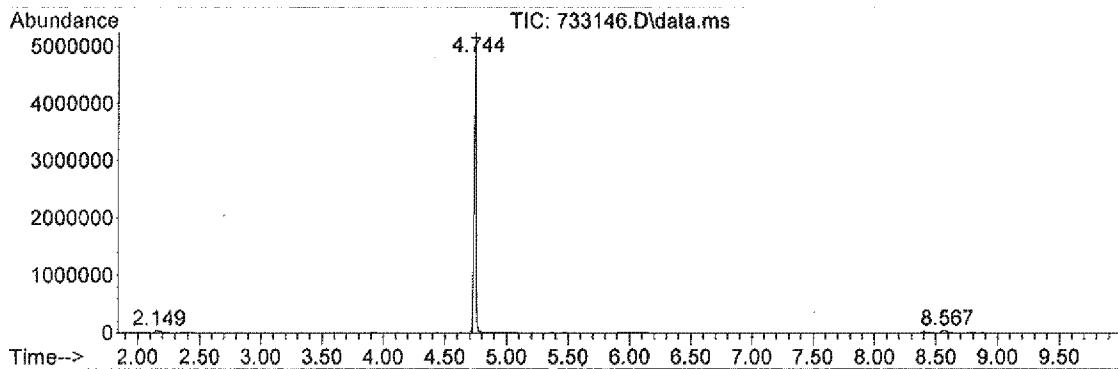
Area Percent / Library Search Report

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Information from Data File:

File Name : E:\SYSTEM7\07\_26\_10\733146.D  
Operator : ASD  
Date Acquired : 26 Jul 2010 23:25  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 46  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 2.149     | 146214  | 2.38   | 2.49    |
| 4.744     | 5862570 | 95.33  | 100.00  |
| 8.567     | 141097  | 2.29   | 2.41    |

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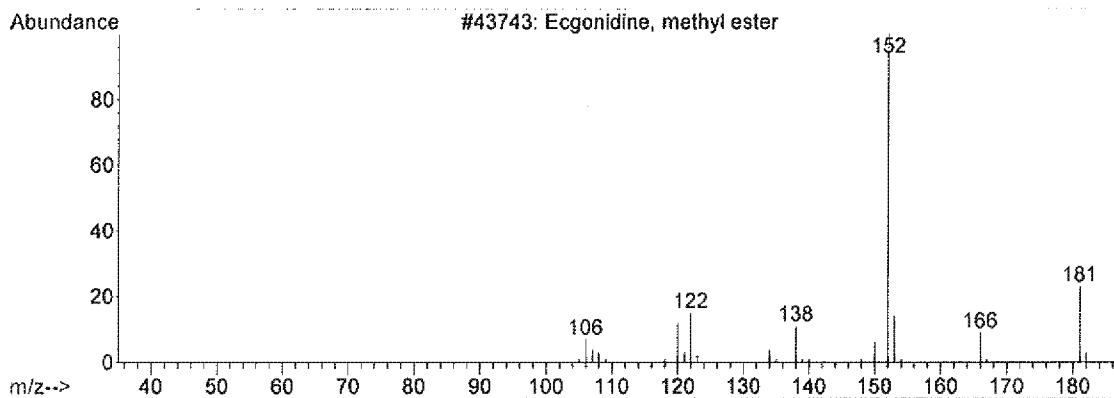
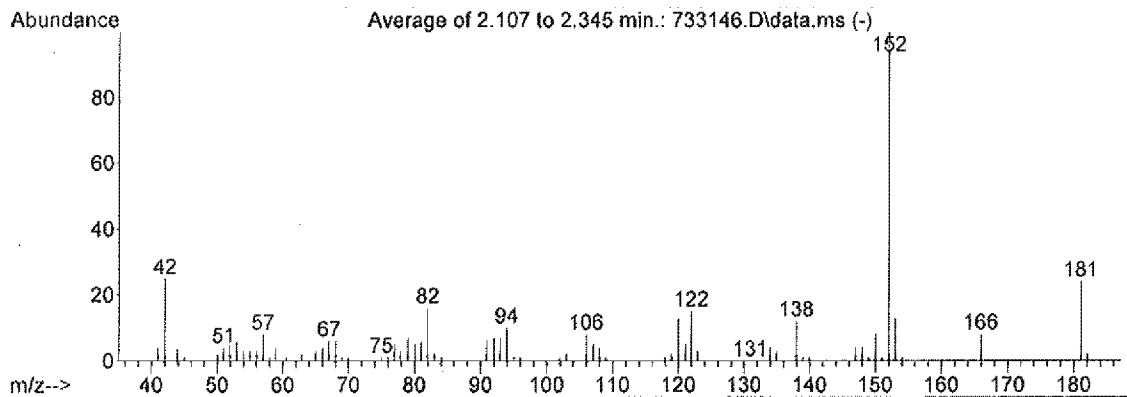
# Area Percent / Library Search Report

**Information from Data File:**

File Name : E:\SYSTEM7\07\_26\_10\733146.D  
Operator : ASD  
Date Acquired : 26 Jul 2010 23:25  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 46  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 1   | 2.15 | C:\Database\NIST05a.L               |             |      |
|     |      | Egonidine, methyl ester             | 127379-24-2 | 97   |
|     |      | 2-Carbomethoxy-8-methyl-8-azabicycl | 043021-26-7 | 95   |
|     |      | 3,5-Dimethoxyphenethylamine         | 003213-28-3 | 49   |



# Area Percent / Library Search Report

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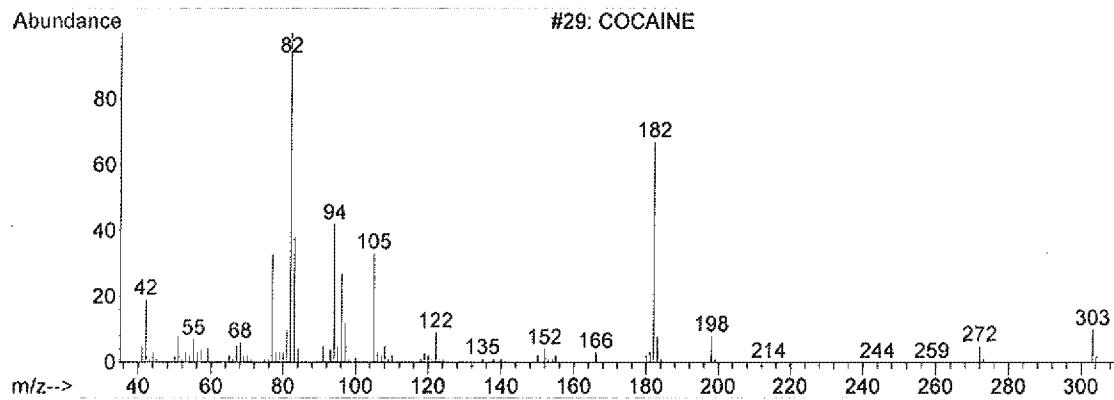
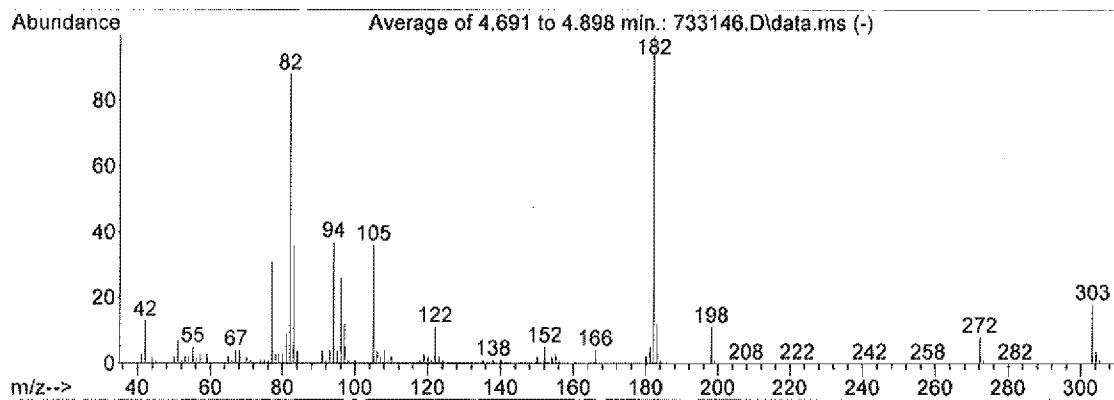
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File Name : E:\SYSTEM7\07\_26\_10\733146.D  
Operator : ASD  
Date Acquired : 26 Jul 2010 23:25  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 46  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 2   | 4.74 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |



# Area Percent / Library Search Report

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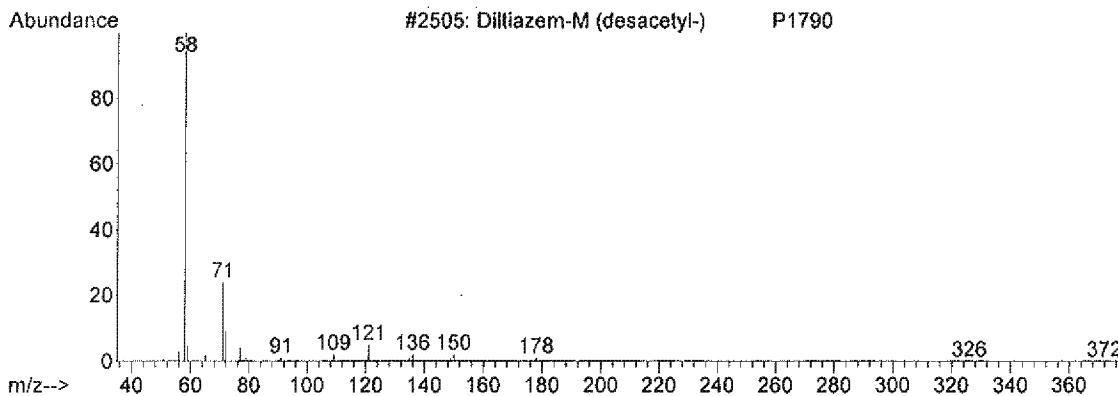
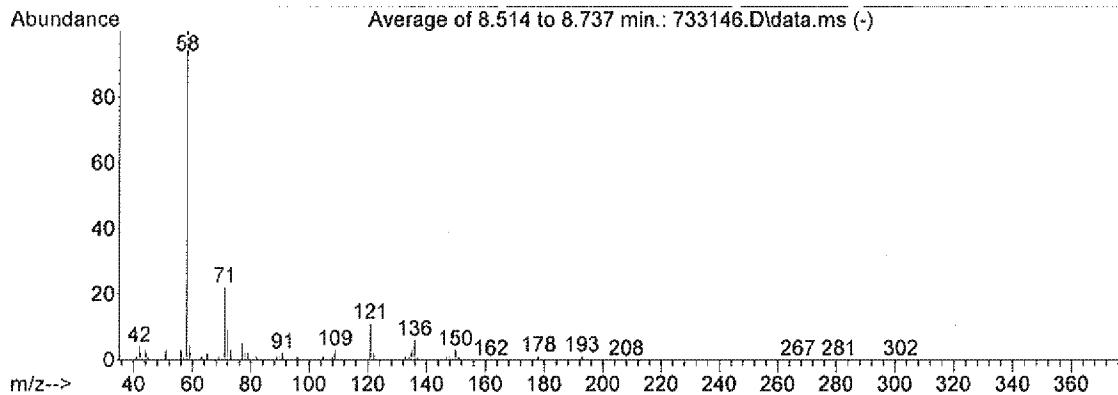
**Information from Data File:**

File Name : E:\SYSTEM7\07\_26\_10\733146.D  
Operator : ASD  
Date Acquired : 26 Jul 2010 23:25  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 46  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID               | CAS#        | Qual |
|-----|------|--------------------------|-------------|------|
| 3   | 8.57 | C:\Database\PMW_TOX2.L   |             |      |
|     |      | Diltiazem-M (desacetyl-) | 000000-00-0 | 72   |
|     |      | Diltiazem                | 042399-41-7 | 56   |
|     |      | BDB                      | 000000-00-0 | 50   |



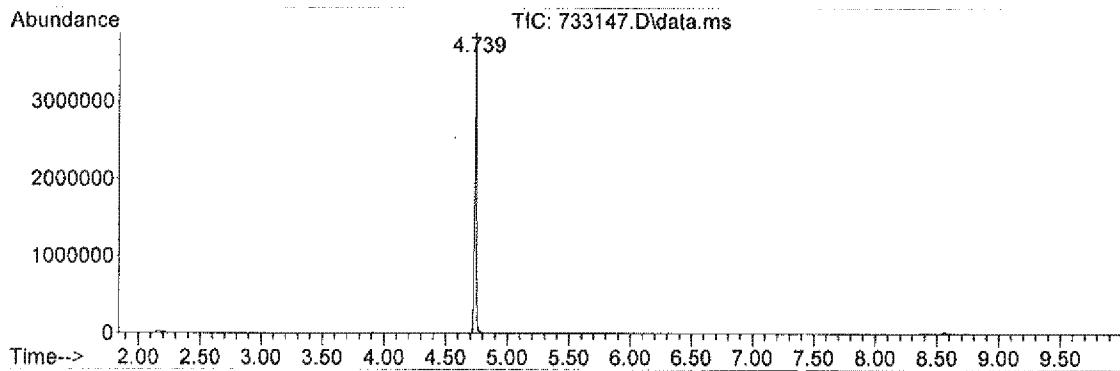
Area Percent / Library Search Report

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Information from Data File:

File Name : E:\SYSTEM7\07\_26\_10\733147.D  
Operator : ASD  
Date Acquired : 26 Jul 2010 23:37  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 47  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.739     | 3787672 | 100.00 | 100.00  |

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# Area Percent / Library Search Report

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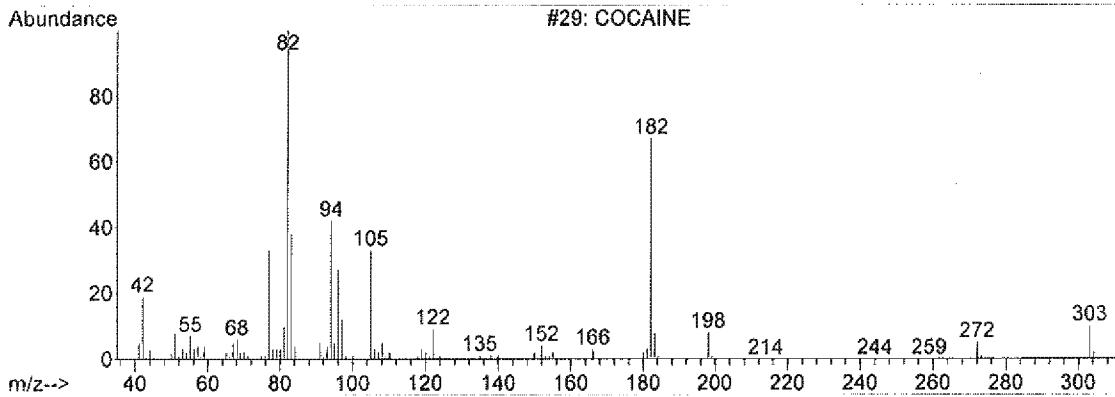
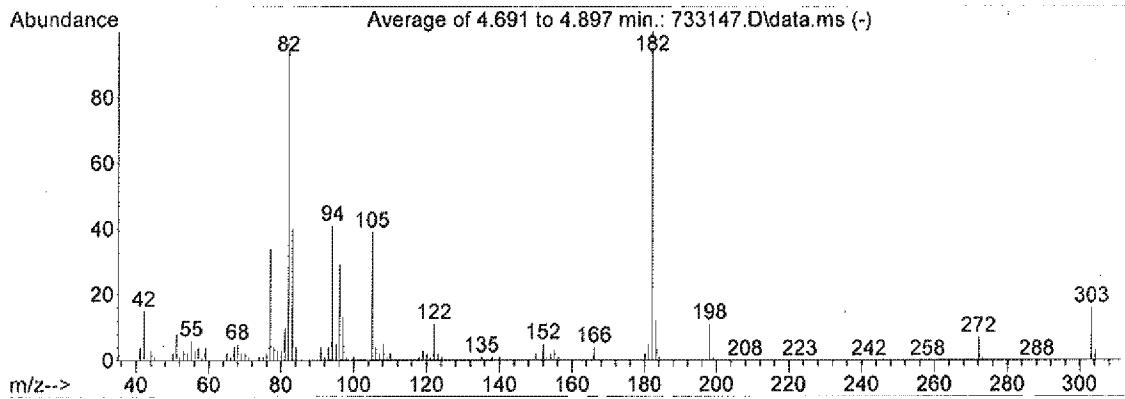
**Information from Data File:**

File Name : E:\SYSTEM7\07\_26\_10\733147.D  
Operator : ASD  
Date Acquired : 26 Jul 2010 23:37  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 47  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.74 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |



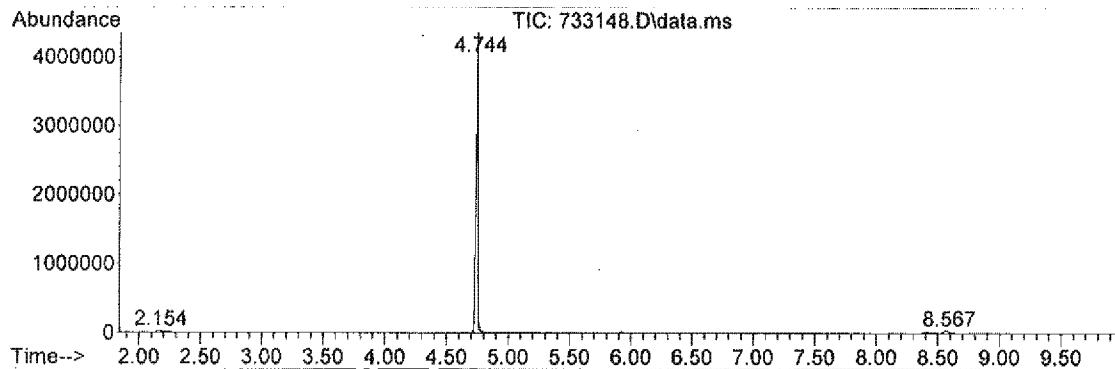
Area Percent / Library Search Report

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Information from Data File:

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Operator : ASD  
Date Acquired : 26 Jul 2010 23:50  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 48  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 2.154     | 106659  | 2.20   | 2.30    |
| 4.744     | 4641048 | 95.52  | 100.00  |
| 8.567     | 111251  | 2.29   | 2.40    |

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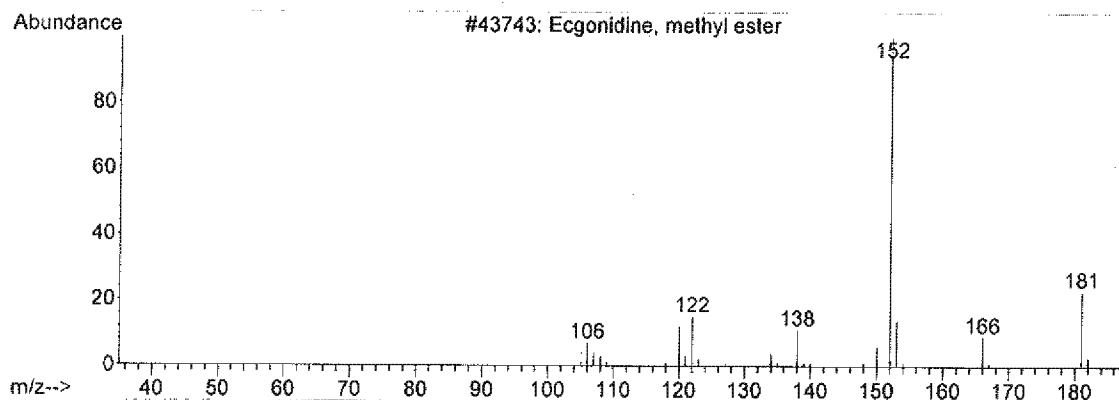
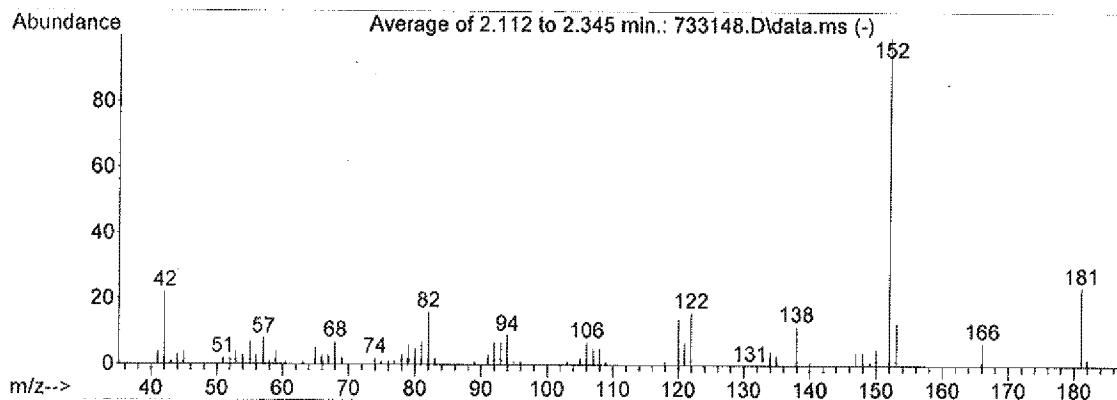
# Area Percent / Library Search Report

**Information from Data File:**

File Name : E:\SYSTEM7\07\_26\_10\733148.D  
Operator : ASD  
Date Acquired : 26 Jul 2010 23:50  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 48  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                          | CAS#        | Qual |
|-----|------|-------------------------------------|-------------|------|
| 1   | 2.15 | C:\Database\NIST05a.L               |             |      |
|     |      | Egonidine, methyl ester             | 127379-24-2 | 94   |
|     |      | 2-Carbomethoxy-8-methyl-8-azabicycl | 043021-26-7 | 70   |
|     |      | 2,6-Dimethoxytoluene                | 005673-07-4 | 47   |



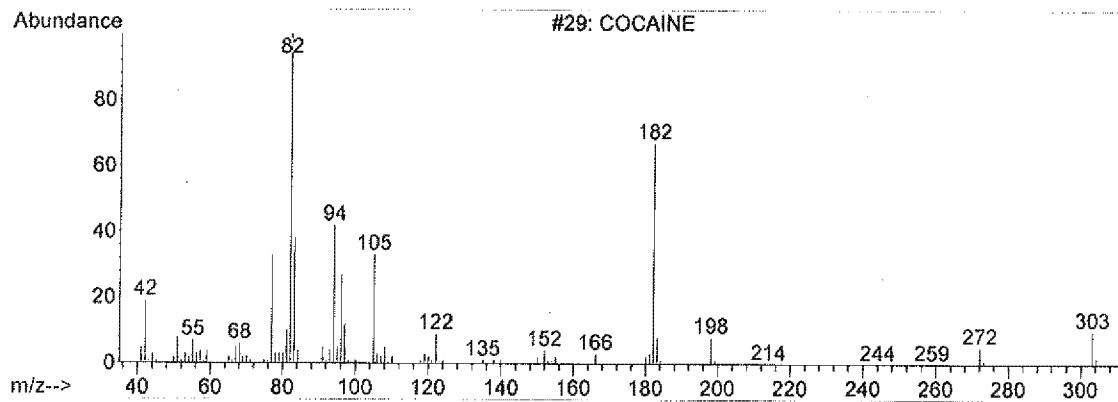
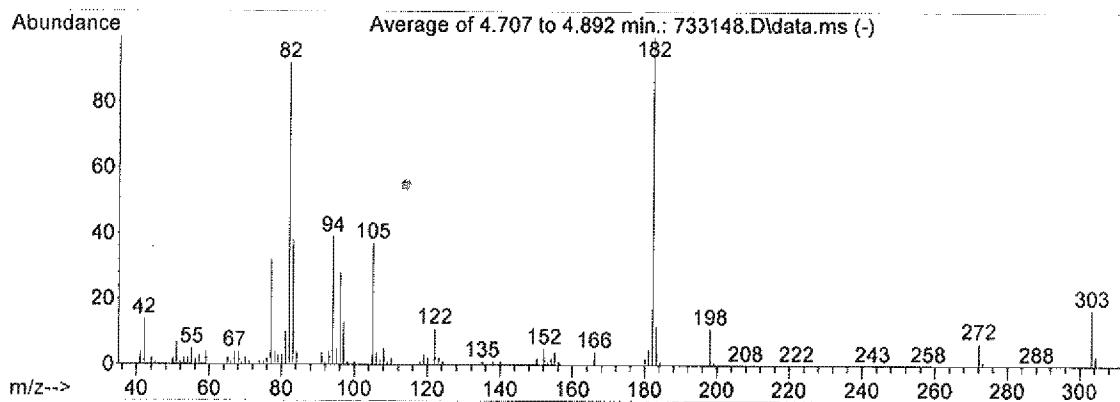
# Area Percent / Library Search Report

**Information from Data File:**

File Name : E:\SYSTEM7\07\_26\_10\733148.D  
Operator : ASD  
Date Acquired : 26 Jul 2010 23:50  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 48  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 2   | 4.74 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |



# Area Percent / Library Search Report

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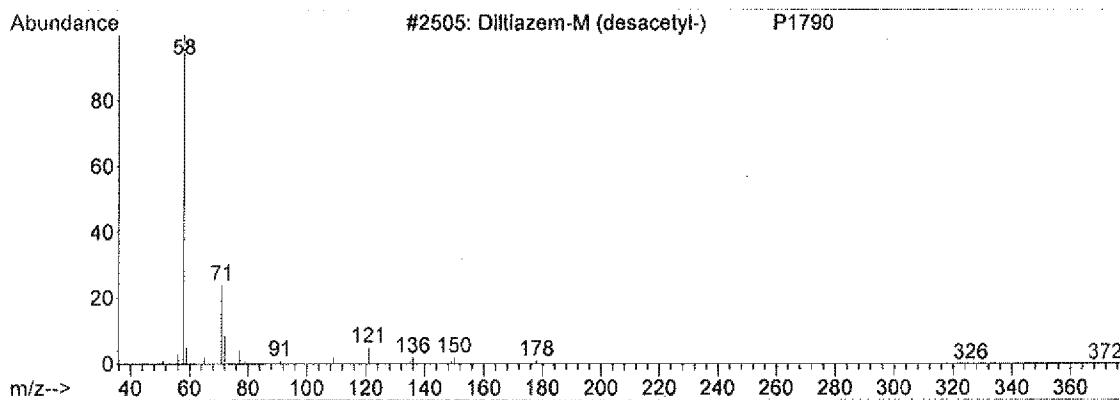
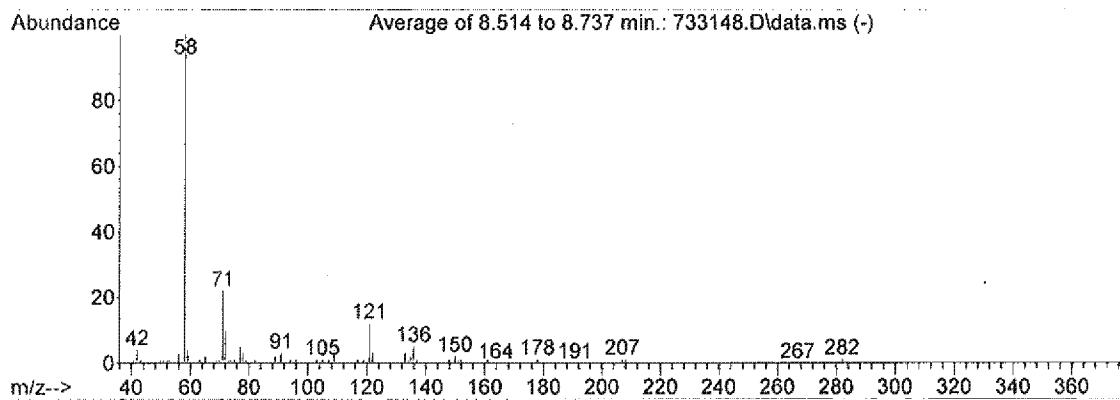
**Information from Data File:**

File Name : E:\SYSTEM7\07\_26\_10\733148.D  
Operator : ASD  
Date Acquired : 26 Jul 2010 23:50  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 48  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID               | CAS#        | Qual |
|-----|------|--------------------------|-------------|------|
| 3   | 8.57 | C:\Database\PMW_TOX2.L   |             |      |
|     |      | Diltiazem-M (desacetyl-) | 000000-00-0 | 72   |
|     |      | Diltiazem                | 042399-41-7 | 64   |
|     |      | Lidocaine-M (desethyl-)  | 000000-00-0 | 40   |



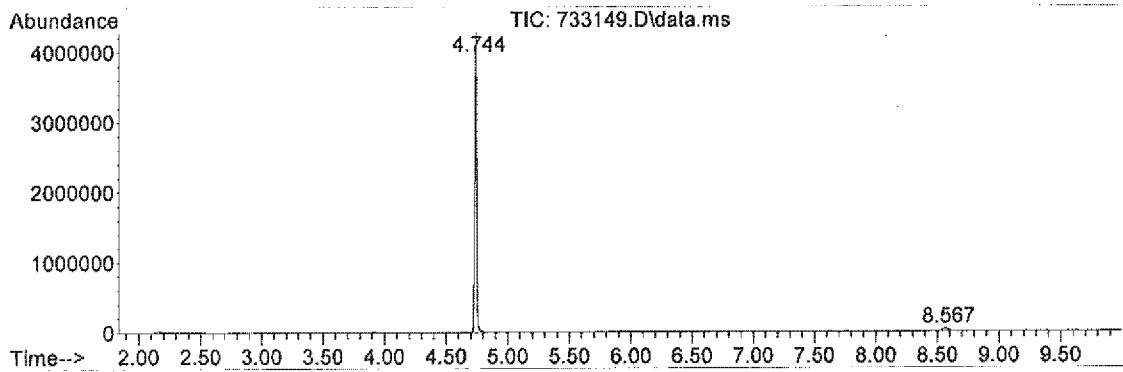
Area Percent / Library Search Report

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Information from Data File:

File Name : E:\SYSTEM7\07\_26\_10\733149.D  
Operator : ASD  
Date Acquired : 27 Jul 2010 00:02  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 49  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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|       |         |       |        |
|-------|---------|-------|--------|
| 4.744 | 4570177 | 97.07 | 100.00 |
| 8.567 | 138171  | 2.93  | 3.02   |

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# Area Percent / Library Search Report

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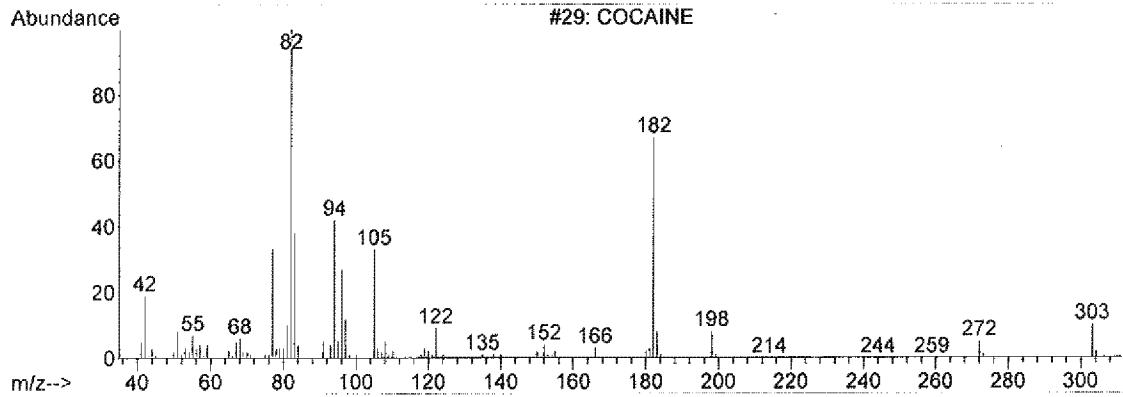
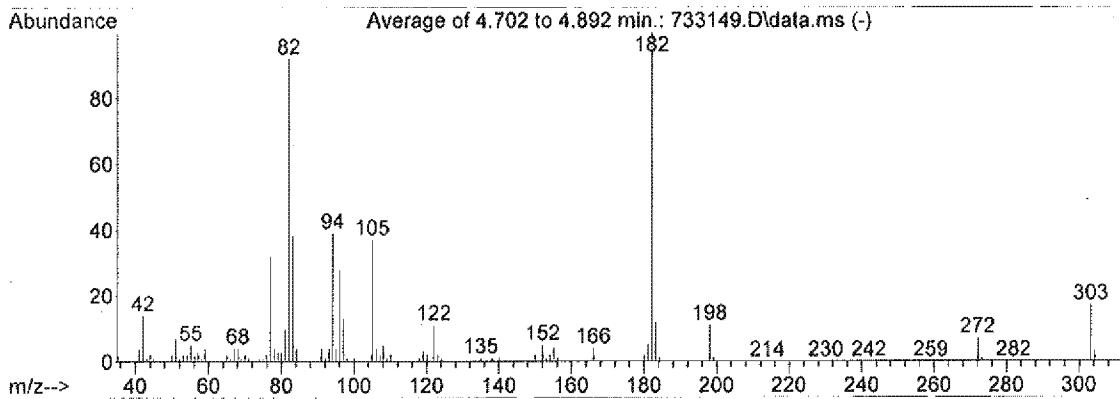
**Information from Data File:**

File Name : E:\SYSTEM7\07\_26\_10\733149.D  
Operator : ASD  
Date Acquired : 27 Jul 2010 00:02  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 49  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.74 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |



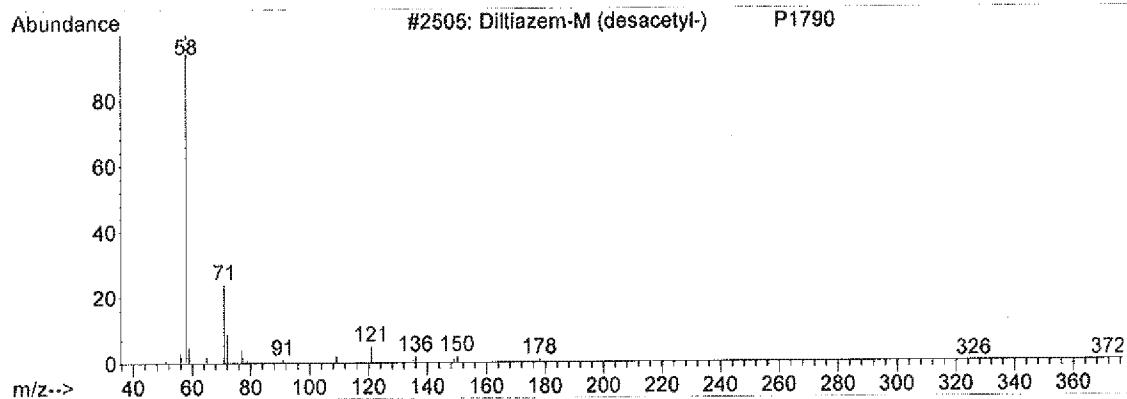
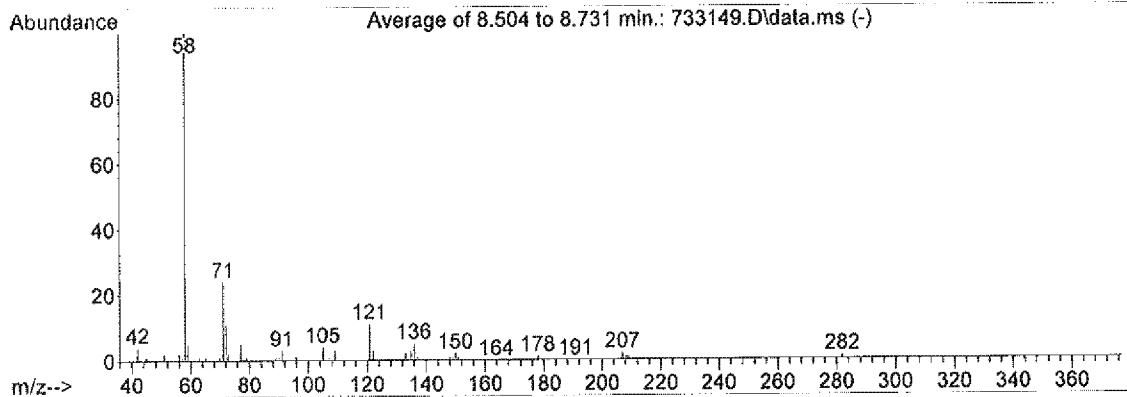
# Area Percent / Library Search Report

**Information from Data File:**

File Name : E:\SYSTEM7\07\_26\_10\733149.D  
Operator : ASD  
Date Acquired : 27 Jul 2010 00:02  
Sample Name : XXXXXXXXXX  
Submitted by : MGL  
Vial Number : 49  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                    | CAS#        | Qual |
|-----|------|-------------------------------|-------------|------|
| 2   | 8.57 | C:\Database\PMW_TOX2.L        |             |      |
|     |      | Diltiazem-M (desacetyl-)      | 000000-00-0 | 72   |
|     |      | Diltiazem-M (O-desmethyl-) AC | 000000-00-0 | 56   |
|     |      | Diltiazem                     | 042399-41-7 | 56   |



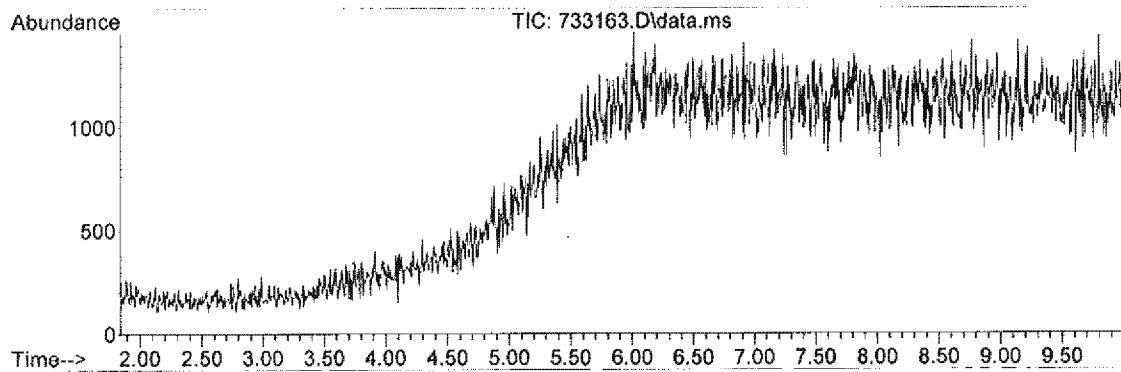
Area Percent / Library Search Report

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Information from Data File:

File Name : E:\SYSTEM7\07\_26\_10\733163.D  
Operator : ASD  
Date Acquired : 27 Jul 2010 2:59  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

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\*\*\*NO INTEGRATED PEAKS\*\*\*

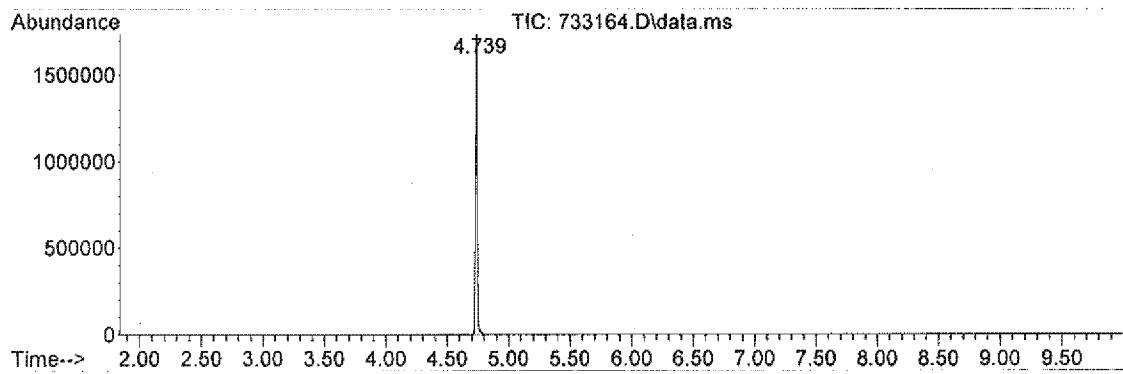
Area Percent / Library Search Report

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Information from Data File:

File Name : E:\SYSTEM7\07\_26\_10\733164.D  
Operator : ASD  
Date Acquired : 27 Jul 2010 3:12  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 64  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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| Ret. Time | Area    | Area % | Ratio % |
|-----------|---------|--------|---------|
| 4.739     | 1646815 | 100.00 | 100.00  |

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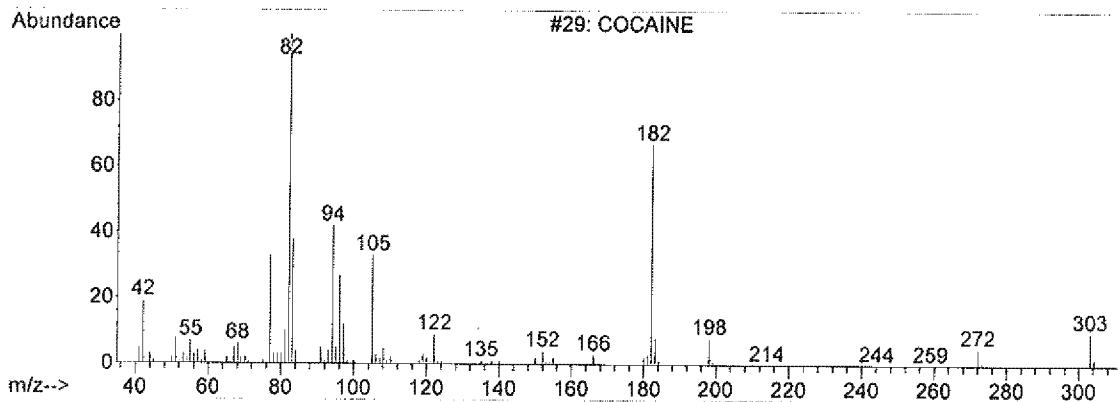
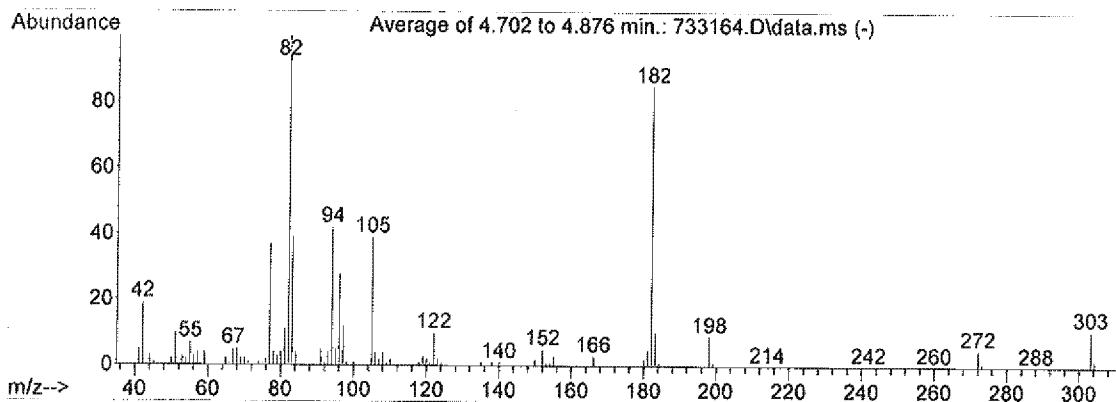
# Area Percent / Library Search Report

**Information from Data File:**

File Name : E:\SYSTEM7\07\_26\_10\733164.D  
Operator : ASD  
Date Acquired : 27 Jul 2010 3:12  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 64  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

| PK# | RT   | Library/ID                   | CAS#        | Qual |
|-----|------|------------------------------|-------------|------|
| 1   | 4.74 | C:\Database\SLI.L<br>COCAINE | 000050-36-2 | 99   |



*Last page..... ...no further data*